Claims:

1\ A system for servicing a printhead having an orifice plate, comprising:

- a moveable container having a reservoir for treatment fluid disposed therein;
- a first block of porous material disposed within said container for absorbing treatment fluid by capillary action.

a second block of porous material partially disposed within said container and extending outwardly therefrom a sufficient distance to facilitate transfer of treatment fluid to the orifice plate when said container and printhead move relative to one another;

said second block of porous material having substantially greater capillary action than said first block of porous material so that a distal end portion end portion of said second block may be continuously supplied with treatment fluid from said reservoir for facilitating the transfer of treatment fluid to the orifice plate; and

a wiper mounted adjacent said moveable container for engaging the orifice plate when said moveable container and printhead move/relative to one another;

said container and printhead moving/a sufficient distance relative to one another in at least one direction so that a sufficient amount of the treatment fluid from said distal end portion may be transferred to the orifice plate for transporting dried printhead residue therefrom as said wiper engagingly travels across the prifice plate; and

wherein said first block of porous material substantially fills said container.

- 2. A wet wiping system according to claim 1, wherein said distal end portion of said second block of porous material includes an applicator, said applicator having a first portion in fluid communication with said reservoir to draw fluid from said reservoir, and said applicator having a tip configured and positioned for directly contacting at least one of said elements to apply a reproducible quantity of servicing fluid onto said at least one element, servicing fluid being transferred to the tip of the applicator by capillary action and said applicator is located adjacent to said cap.
- 3. The system of claim 2, wherein said distal end portion contacts said printhead when said printhead is capped.

The system of claim 3, wherein said printer further comprises a reciprocally moveable carriage for carrying the printhead, said carriage being moveable between a first limit and a second limit of travel along a guide rod.

wherein said container is mounted for movement on said guide rod to apply treatment fluid to said wiper as said container is moved along said rod by contact with said carriage.

- 5. The system of claim 3, wherein said distal end portion is located within said cap.
  - 7. The system of claim 4, further comprising:

a biasing member for biasing said container to a certain position adjacent a certain side of said wiper.

- 8. The system of claim 2, wherein said wiper further comprises a first wiper having an applicator portion.
- 9. The system of claim 8, wherein said first wiper is flexed by contact with said printhead to move said applicator portion into engagement with said distal end portion of said second block of porous material.
- 10. The system of claim 9, further comprising a second wiper adjacent said distal end portion on a side opposite said first wiper, whereby said orifice plate may be wiped by said second wiper prior to application of servicing fluid to said orifice plate by said applicator portion of said first wiper.
- 11. The system of claim 1, wherein said first block is elastomeric open cell foam.
- 12. The system of claim 1, wherein said container includes a vent for allowing air to enter said container as fluid is withdrawn therefrom by capillary action.
- 13. The system of claim 10, wherein said second block of porous material is disposed in a space between said wiper and said transfer portion.
- 14. The system of claim 13, wherein said transfer portion squeezes said second block of porous material when moved laterally by said printhead with a sufficient amount of force to cause said sufficient amount of treatment fluid to expel upwardly from said distal end

portion onto said first wiper for subsequent engagement with said orifice plate as said printhead moves-along a given path of travel into wiping engagement with said wiper.

- 15. The system of claim 14, wherein said transfer portion is elastomeric.
- 16. A system for servicing a portion of a printhead of an inkjet printing mechanism having a printhead reciprocally moved by a carriage, a cap for capping said printhead and a wiper for wiping said printhead during relative movement of said printhead and said wiper, said system comprising:

a source of printhead servicing fluid including a fluid reservoir; and

an applicator in fluid communication with said reservoir to draw fluid from said reservoir, and said applicator having a tip configured and positioned for directly contacting said wiper to apply a reproducible quantity of servicing fluid onto said wiper, servicing fluid being transferred to the tip of the applicator by capillary action;

wherein said printer further comprises;

a reciprocally movable carriage which moves between a first limit and a second limit of travel along a guide rod, and a printhead carried by said carriage wherein said applicator is carried by said guide rod so as to move with a printer carriage to wipingly contact said wiper element;

wherein said source of servicing fluid is stationary and is mounted adjacent a path of travel of said printhead carriage;

a pump for pumping servicing fluid from said source to said applicator; and

wherein the pump is actuated by movement of said carriage, said applicator being dosed by moving the carriage to a position to actuate said pump and in a coordinated manner moving the applicator to a position where said applicator receives said treatment fluid pumped from said stationary source of servicing fluid.

17. The system of claim 16, wherein said pump is located at a limit of reciprocal movement of the carriage and further comprising a spigot in fluid communication with said pump, said spigot located so as to dispense servicing fluid to said applicator when said actuator is positioned at said limit of reciprocal movement.

18. A system for servicing a printhead of an inkjet printer, comprising:

a composite wiper element having first and second impervious elastomeric layers, and a layer of porous elastomeric foam sandwiched therebetween;

a quantity of treatment fluid disposed in said layer of porous elastomeric foam and in fluid communication with a normally open opening adjacent a top portion of said composite wiper element and allowing servicing fluid to flow out to assist in wiping said printhead by wipingly contacting the composite wiper and said printhead.

- 19. The system of claim 18, wherein said composite wiper is deformed resiliently by contact with said printhead to expel fluid from said opening.
- 20. A system for servicing a printhead element of an inkjet printer wherein two elements, consisting of said printhead and a wiper element moveable with respect to the printhead in wiping contact therewith, are moved with respect to one another to remove unwanted accumulations from a portion of the printhead comprising:

a composite wiper element having first and second impervious elastomeric layers, and a layer of fluid impregnated porous elastomeric foam sandwiched therebetween, said foam layer containing a quantity of servicing fluid therein and being in fluid communication with a normally open opening adjacent a top portion of said composite wiper element and allowing servicing fluid to flow out to assist in wiping said printhead by wipingly contacting the composite wiper and said printhead;

wherein said composite wiper is resiliently deformed by contact with said printhead to expel fluid from said opening; and

a separate source of servicing fluid in fluid communication with said porous layer to replenish the servicing fluid contained in the porous layer.

21. The system of claim 20, wherein fluid is transferred to said composite wiper from said separate source by a pumping action of said composite wiper upon rebound from deformation due to wiping the printhead.

- 22. The system of claim 21, wherein said first and second elastomeric impervious layers are of unequal height, at least one of said layers having a tapered top which is engaged by said printhead to bend said one layer to close said opening.
- 23. The system of claim 21, further comprising an opening adjacent a top edge of said wiper on a side first contacted by said printhead in wiping.
  - 24. A system for servicing a printhead, comprising:
  - a moveable container having a reservoir of treatment fluid disposed therein;
- a first block of porous material disposed within said container for absorbing by capillary action said reservoir of treatment fluid;

a second block of porous material partially disposed within said container and extending outwardly therefrom a sufficient distance to facilitate transfer of treatment fluid to the printhead when said container and printhead move relative to one another.

said second block of porous material laving substantially greater capillary action than said first block of porous material so that a distal end portion of said second block is continuously supplied with treatment fluid from said reservoir for facilitating the transfer of treatment fluid to said printhead; and

a wiper mounted adjacent said moveable container for engaging said printhead when said moveable container and printhead move relative to one another;

said moveable container and printhead moving a sufficient distance relative to one another in at least one direction so that a sufficient amount of the treatment fluid from said distal end portion is transferred to said printhead for transporting dried printhead residue therefrom as said wiper engagingly travels across the orifice plate for printhead cleaning purposes.

- 25. A system for servicing a printhead, comprising:
- a moveable container having a reservoir of treatment fluid disposed therein;
- a first block of porous material disposed within said container for absorbing by capillary action said reservoir of treatment fluid;

a second block of porous material partially disposed within said container and extending outwardly therefrom a sufficient distance to facilitate transfer of treatment fluid to said printhead when said container and printhead move relative to one another;

said second block of porous material having substantially greater capillary action than said first block of porous material so that a distal end portion of said second block is continuously supplied with treatment fluid from said reservoir for facilitating the transfer of treatment fluid to said printhead; and

a wiper mounted adjacent said moveable container for engaging said printhead when said moveable container and printhead move relative to one another;

said moveable container and printhead moving a sufficient distance relative to one another in at least one direction so that a sufficient amount of the treatment fluid from said distal end portion is transferred to said printhead for transporting dried printhead residue therefrom as said wiper engagingly travels across said printhead; and

wherein said second block engages said printhead when said container and printhead are moved toward one another in a vertical direction.

26. A wet wiping system for a printhead, comprising:

a moveable container having a reservoir of treatment fluid disposed therein;

a block of porous material disposed within said container for absorbing by capillary action said reservoir of treatment fluid;

another block of porous material partially disposed within said container and extending outwardly therefrom a sufficient distance to facilitate transfer of treatment fluid to said printhead when said container and printhead move relative to one another;

said another block of porous material having substantially greater capillary action than said block of porous material so that a distal end portion of the another block is continuously supplied with treatment fluid from said reservoir for facilitating the transfer of treatment fluid to said printhead; and

a wiper mounted adjacent said moveable container for engaging said printhead when said moveable container and printhead move relative to one another;

said movable container and printhead moving a sufficient distance relative to one another in at least one direction so that a sufficient amount of the treatment fluid from said distal end portion of a transfer element is transferred to said printhead for transporting dried printhead residue therefrom as said wiper engagingly travels across said printhead; and

further comprising a transfer element mounted at about said moveable container and spaced from said wiper for further facilitating the transfer of said sufficient amount of treatment fluid to said printhead.

27. A system for servicing a printhead of an inkjet printing mechanism, comprising:

a service station including a cap which covers the printhead when positioned at said service station and a wiper which wipes said printhead during relative movement of said printhead and said wiper;

a source of printhead servicing fluid; and

an applicator pump having a fluid outlet in said cap for [wetting said printhead with] applying a predetermined quantity of said fluid to said printhead.

- 28. The system of claim 27, wherein said pump is actuated by movement of said service station relative to said printhead.
- 29. The system of claim 28, wherein said pump includes a piston moved by contact of said cap with said printhead.
  - 30. The system of claim 29, wherein said outlet is a duckbill valve.
  - 31. The system of claim 27, wherein said pump is a low volume spray pump.
- 32. An inkjet printhead cartridge comprising a container of ink, an area having orifices through which ink is ejected from said container during printing, a reservoir of printhead servicing fluid matched for use with said ink and an applicator for applying a reproducible quantity of said servicing fluid onto a printhead wiper which wipes said orifices during relative movement of said printhead and wiper.
- 33. The cartridge of claim 32, wherein said servicing fluid is impregnated in a porous material filling said reservoir.

- 34. The cartridge of claim 33 wherein said applicator comprises a wick in fluid communication with said porous material, said wick having a fluid dispensing surface positioned for applying said fluid to a wiper which subsequently wipes said orifices.
- 35. The cartridge of claim 34, wherein said wick has substantially greater capillary attraction force than said porous material.
- 36. The cartridge of claim 35, wherein said porous material is an open cell rigid foam block.
  - 37. The cartridge of claim 34, wherein said cartridge is refillable.
  - 38. The cartridge of claim 34, wherein said cartridge is disposable.]
- 39. An inkjet printing mechanism having a moveable inkjet printhead in combination with the servicing system of claim 1, said servicing system being positioned on said mechanism for servicing said printhead.
- 40. An inkjet printing mechanism having a moveable inkjet printhead in combination with the servicing system of claim 16, said servicing system being positioned on said mechanism for servicing said printhead.
- 41. An inkjet printing mechanism having a moveable inkjet printhead in combination with the servicing system of claim 18, said servicing system being positioned on said mechanism for servicing said printhead.
- 42. An inkjet printing mechanism having a moveable inkjet printhead in combination with the servicing system of claim 20, said servicing system being positioned on said mechanism for servicing said printhead.
- 43. An inkjet printing mechanism having a moveable inkjet printhead in combination with the servicing system of claim 24, said servicing system being positioned on said mechanism for servicing said printhead.
- 44. An inkjet printing mechanism having a moveable inkjet printhead in combination with the servicing system of claim 25, said servicing system being positioned on said mechanism for servicing said printhead.

- 45. An inkjet printing mechanism having a moveable inkjet printhead in combination with the wet wiping system of claim 26, said wet wiping system being positioned on said mechanism for servicing said printhead.
- 46. A method of servicing an inkjet printhead comprising applying a reproducible quantity of servicing fluid to said printhead by causing mutual movement of said printhead and a resilient fluid applicator and wiping said printhead to remove said fluid from said printhead.
- 47. The method of claim 46, comprising moving said printhead to engage said applicator.
- 48. The method of claim 47, comprising engaging a flexible applicator by contact with said printhead to release said fluid onto said printhead.
- 49. The method of claim 47, comprising moving a flexible applicator by contact with said printhead to cause said applicator to apply said fluid onto a wiper and moving said printhead with respect to said wiper to wipe said printhead.
- 50. The method of claim 46, wherein said applicator comprises a resilient wiper and movement of said printhead actuates a pump for applying fluid onto said wiper.]

51. The system of claim 7, wherein said biasing member is a coil spring.